



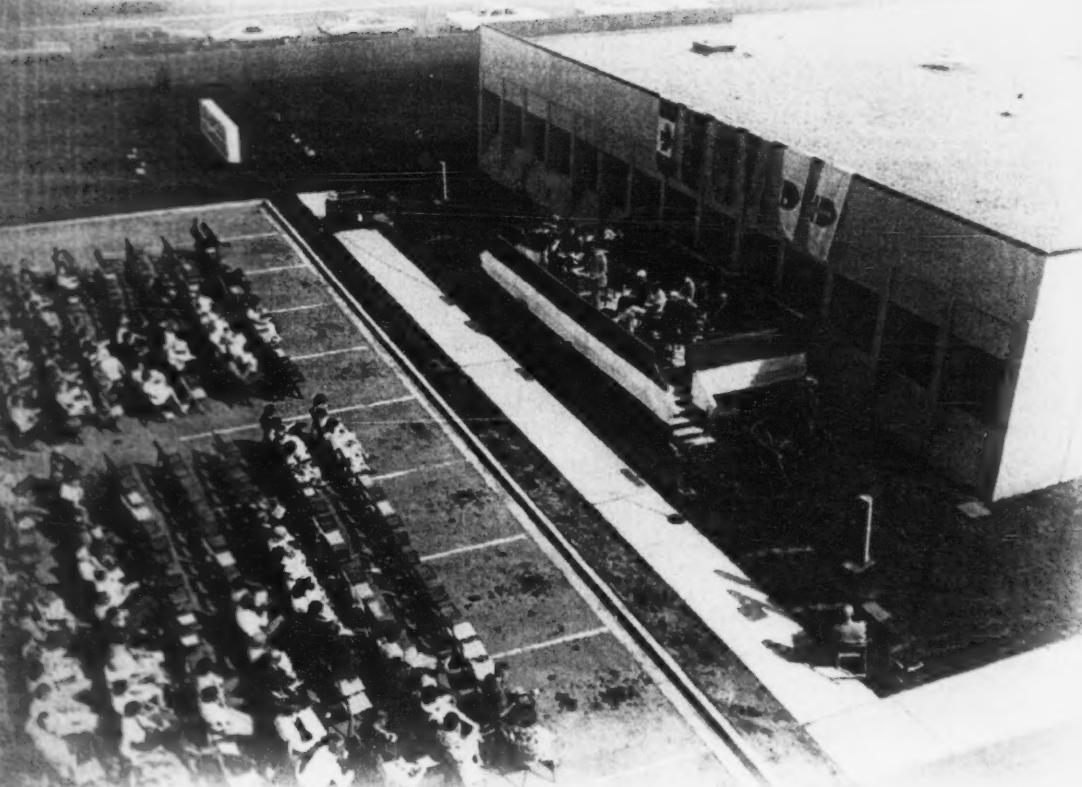
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NORTHERN FORESTRY CENTRE PUBLICATIONS 2008–2010

E.M. Lefebvre



INFORMATION REPORT NOR-X-420E

Canadian Forest Service Northern Forestry Centre

Canada

The Northern Forestry Centre is one of five centres of the Canadian Forest Service, which has its headquarters in Ottawa, Ontario. This centre undertakes the regional delivery of national projects.

The Canadian Forest Service's main objective is research in support of improved forest management for economic, social, and environmental benefits to all Canadians.

Le Centre de foresterie du Nord constitue l'un des cinq établissements du Service canadien des forêts, dont l'administration centrale est à Ottawa (Ontario). Le Centre entreprend la réalisation régionale de projets nationaux.

Le Service canadien des forêts s'intéresse surtout à la recherche en vue d'améliorer l'aménagement forestier afin que tous les Canadiens puissent en profiter aux points de vue économique, social et environnemental.

Cover photo: Aerial photo of opening celebration, Northern Forestry Centre, June 21, 1971.
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ABSTRACT

Scientific, technical and interpretive publications written or published by staff of the Northern Forestry Centre during 2008–2010 are listed alphabetically by author. A subject index is provided.

RÉSUMÉ

Ce document énumère alphabétiquement (par auteur) les publications scientifiques et techniques ainsi que les ouvrages de vulgarisation qui ont été rédigés ou publiés par le personnel du Centre de foresterie du Nord entre 2008 et 2010. Un index des sujets est présenté.

PREFACE

This bibliography lists 163 forest research publications written by staff of the Northern Forestry Centre between 2008 and 2010. These works comprise departmental publications (Information Reports, Special Reports, and miscellaneous publications) and symposium and journal articles. The publications are listed alphabetically by author. A subject index lists the major topics of research and the related publications are cited by author and year.

Since the Northern Forestry Centre opened in 1971, the Canadian Forest Service staff have contributed many resources to the forest research literature. A list of earlier general bibliographies is provided below for your information.

For additional information regarding Canadian Forest Service publications, visit the Canadian Forest Service Online Publications Website at <http://cfs.nrcan.gc.ca/publications/>; unless otherwise stated, all items listed are distributed free of charge. Note that all reports published by the Northern Forestry Centre are available in PDF format on the Publications Website.

This bibliography is intended to be an aid to research and should not be considered a catalogue for ordering.

REFERENCES

- Lefebvre, E.M. 2008. Northern Forestry Centre Publications, 2004–2007. *Nat. Resour. Can., Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-411E.*
- Lefebvre, E.M. 2008. Publications du Centre de foresterie du Nord, 2004–2007. *Ressour. nat. Can., Serv. can. for., Cent. for. Nord, Edmonton (Alberta). Rapp. inf. NOR-X-411F.*
- Lefebvre, E.M.; Leroy, D.A. 2004. Northern Forestry Centre publications, 2000–2003. *Nat. Resour. Can., Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-402E.*
- Lefebvre, E.M.; Leroy, D.A. 2004. Publications du Centre de foresterie du Nord, 2000–2003. *Ressour. nat. Can., Serv. can. for., Cent. for. Nord, Edmonton (Alberta). Rapp. inf. NOR-X-402F.*
- Leroy, D.A. 2000. Northern Forestry Centre publications, 1997–99. *Nat. Resour. Can., Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-372E.*
- Leroy, D.A. 2000. Publications du Centre de foresterie du Nord, 1997–1999. *Ressour. nat. Can., Serv. can. for., Cent. for. Nord, Edmonton (Alberta). Rapp. inf. NOR-X-372F.*
- Leroy, D.A. 1998. Northern Forestry Centre Publications, 1994–96. *Nat. Resour. Can., Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-354E.*
- Leroy, D.A. 1998. Publications du Centre de foresterie du Nord, 1994–1996. *Ressour. nat. Can., Serv. can. for., Cent. for. Nord, Edmonton (Alberta). Rapp. inf. NOR-X-354F.*
- Leroy, D.A. 1994. Northern Forestry Centre publications, 1991–93. *Nat. Resour. Can., Can. For. Serv., Northwest Reg., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-336E.*
- Leroy, D.A. 1994. Publications du Centre de foresterie du Nord, 1991–93. *Ressour. nat. Can., Serv. can. for., Cent. for. Nord, Edmonton (Alberta). Rapp. inf. NOR-X-336F.*
- Leroy, D.A. 1991. Northern Forestry Centre publications, 1987–90. *For. Can., Northwest Reg., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-321.*
- Leroy, D.A. 1991. Publications du Centre de foresterie du Nord, 1987–1990. *For. Can., Reg. Nord-Ouest, Cent. for. Nord, Edmonton (Alberta). Rapp. inf. NOR-X-321F.*
- Samoil, J.K.; Turtle, G.B. 1988. Northern Forestry Centre publications, 1980–86. *Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-297.*
- Dendwick, F.M.; Stevenson, G.R.; Rentz, C.L.; Gorman, J.R., compilers. 1980. *Forest research bibliography, 1968–1975, with 1976–1979 supplement (Supplement compiled by F.M. Dendwick and R.M. Waldron).* Environ., Can., Can. For. Serv., North. For. Res. Cent., Edmonton, AB. Inf. Rep. NOR-X-162.
- Hildahl, V.; Pratt, R.; Campbell, A. 1968. *Bibliography of forest research.* Can. Dep. For. Rural Dev., For. Branch, For. Res. Lab., Winnipeg, MB. *Liaison Serv. Note MS-L-2.*

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- Alexander, M.E. 2008. Appendix 3: Latitude considerations in adapting the Canadian Forest Fire Weather Index System for use in other countries. Pages 67-73 in B.D. Lawson and O.B. Armitage, eds. Weather Guide for the Canadian Forest Fire Danger Rating System. Nat. Resour. Can, Can. For. Serv., North. For. Cent., Edmonton, AB.
- Alexander, M.E. 2008. Proposed revision of fire danger class criteria for forest and rural areas in New Zealand. National Rural Fire Authority, Wellington, New Zealand and Scion, Rural Fire Research Group, Christchurch, New Zealand. 2nd ed.
- Alexander, M.E. 2009. The 1988 fires of Yellowstone and beyond as a wildland fire behavior case study. USDA Forest Service, Wildland Fire Lessons Learned Center, Tucson, AZ. 30 p.
- Alexander, M.E. 2009. Are we abusing our use of models and modeling in wildland fire and fuel management? *Fire Manag. Today* 69(4):23-26.
- Alexander, M.E. 2009. Opening remarks: the 1988 Yellowstone fires as a fire behavior case history. Page 8 in R.E. Masters, K.E.M. Galley, and D.G. Despain, eds. The '88 fires: Yellowstone and beyond. Proc. Conf. September 22-27, 2008, Jackson, WY. Tall Timbers Publ. No. 16, Tall Timbers Res. Stn., Tallahassee, FL.
- Alexander, M.E. 2009. Wildland fire behavior and "the course of science" flowchart: is there a connection? *Fire Manag. Today* 69(3):44-46.
- Alexander, M.E. 2010. Fire behavior in moderately heavy logging slash: documenting the past with photographs. In D.X. Viegas, ed. Proc. 6th Int. Conf. For. Fire Res., November 15-18, 2010, Coimbra, Portugal. Univ. Coimbra, Coimbra, Portugal. 12 p.
- Alexander, M.E. 2010. Foliar moisture content input in the Canadian Forest Fire Behavior Prediction System for areas outside of Canada. In D.X. Viegas, ed. Proc. 6th Int. Conf. For. Fire Res., November 15-18, 2010, Coimbra, Portugal. Univ. Coimbra, Coimbra, Portugal. 12 p.
- Alexander, M.E. 2010. Surface fire spread potential in trembling aspen during summer in the boreal forest region of Canada. *For. Chron.* 86(2):200-212.
- Alexander, M.E.; Baxter, G.J.; Ackerman, M.Y. 2009. Is a wellsite opening a safety zone for a wildland firefighter or a survival zone, or neither? Page 110 in R.E. Masters, K.E.M. Galley, and D.G. Despain, eds. The '88 fires: Yellowstone and beyond. Proc. Conf. September 22-27, 2008, Jackson, WY. Tall Timbers Publ. No. 16, Tall Timbers Res. Stn., Tallahassee, FL.
- Alexander, M.E.; Cruz, M.G. 2009. Recent advances in modeling the onset of crowning and crown fire rate of spread. Page 19 in R.E. Masters, K.E.M. Galley, and D.G. Despain, eds. The '88 fires: Yellowstone and beyond. Proc. Conf. September 22-27, 2008, Jackson, WY. Tall Timbers Publ. No. 16, Tall Timbers Res. Stn., Tallahassee, FL.
- Alexander, M.E.; Taylor, S.W. 2010. Wildland fire behavior case studies and the 1938 Honey fire controversy. *Fire Manag. Today* 70(1):15-25.
- Allen, C.D.; Macalady, A.K.; Chenchouni, H.; Bachelet, D.; McDowell, N.; Vennetier, M.; Kitzberger, T.; Rigling, A.; Breshears, D.D.; Hogg, E.H.; Gonzalez, P.; Fensham, R.; Zhang, Z.; Castro, J.; Demidova, N.; Lim, J.-H.; Allard, G.; Running, S.W.; Semerci, A.; Cobb, N. 2010. A global overview of drought and heat-induced tree mortality reveals emerging climate change risks for forests. *For. Ecol. Manag.* 259(4):660-684.

- Anderson, K.R. 2009. A comparison of hourly fine fuel moisture code calculations within Canada. Pages 3A.4–3A.10 in Proc. 8th Symp. Fire For. Meteorol., October 13–15, 2009, Kalispell, MT. Am. Meteorol. Soc., Boston, MA.
- Anderson, K.R. 2010. A climatologically based long-range fire growth model. *Int. J. Wildland Fire* 19(7):879–894.
- Anderson, K.R.; Englefield, P.; Little, J.M.; Reuter, G. 2009. An approach to operational forest fire growth predictions for Canada. *Int. J. Wildland Fire* 18(8):893–905.
- Arevalo, C.B.M.; Bhatti, J.S.; Chang, S.X.; Jassal, R.S.; Sidders, D.M. 2010. Soil respiration in four different land use systems in north-central Alberta, Canada. *J. Geophys. Res.* 115:G01003. 12 p.
- Arevalo, C.B.M.; Bhatti, J.S.; Chang, S.X.; Sidders, D.M. 2009. Ecosystem carbon stocks and distribution under different land-uses in north-central Alberta, Canada. *For. Ecol. Manag.* 257(8):1776–1785.
- Arevalo, C.B.M.; Bhatti, J.S.; Chang, S.X.; Sidders, D.M. 2010. Distribution of recent photosynthates in saplings of two hybrid poplar clones. *Commun. Soil Sci. Plant Anal.* 41(8):1004–1015.
- Arsenault, E.; Hall, R.J.; Hogg, E.H.; Michaelian, M.; Filiatrault, M. 2009. Using a canopy reflectance model for the detection of aspen dieback from Multi-temporal Landsat Thematic Mapper data. Pages 372–377 in C.A. Coburn and D.R. Peddle, eds. Proc. 30th Can. Symp. Remote Sens., June 22–25, 2009, Lethbridge, AB. Can. Remote Sens. Soc., Ottawa, ON.

B

- Bauer, I.E.; Bhatti, J.S.; Swanston, C.; Wieder, R.K.; Preston, C.M. 2009. Organic matter accumulation and community change at the peatland–upland interface: inferences from ^{14}C and ^{210}Pb dated profiles. *Ecosystems* 12(4):636–653.
- Beilman, D.W.; Vitt, D.H.; Bhatti, J.S.; Forest, S. 2008. Peat carbon stocks in the southern Mackenzie River Basin: uncertainties revealed in a high-resolution case study. *Global Chang. Biol.* 14:1221–1232.
- Beverly, J.; Bothwell, P.M.; Conner, J.C.R.; Herd, E.P.K. 2010. Assessing the exposure of the built environment to potential ignition sources generated from vegetative fuel. *Int. J. Wildland Fire* 19: 299–313.
- Beverly, J.; Herd, E.P.K.; Conner, J.C.R. 2009. Modeling fire susceptibility in west-central Alberta, Canada. *For. Ecol. Manag.* 258(7):1465–1478.
- Beverly, J.; Uto, K.; Wilkes, J.; Bothwell, P.M. 2008. Assessing spatial attributes of forest landscape values: an internet-based participatory mapping approach. *Can. J. For. Res.* 38(2):289–303.
- Bhatti, J.S.; Chertov, O.; Komarov, A. 2009. Influence of climate change, fire, insect and harvest on carbon dynamics for jack pine in central Canada: simulation approach with the EFIMOD model. *Int. J. Clim. Chang. Impacts Responses* 1(3):41–63.
- Bhatti, J.S.; Tarnocai, C. 2009. Influence of climate and land use change on carbon in agriculture, forest, and peatland ecosystems across Canada. Pages 47–70 in R. Lal and R.F. Follett, co-eds. *Soil carbon sequestration and the greenhouse effect*. Soil Sci. Soc. Am., Madison, WI.
- Brandt, J.P. 2009. The extent of the North American boreal zone. *Environ. Rev.* 17(1):101–161.
- Burton, P.J.; Parisien, M.-A.; Hicke, J.A.; Hall, R.J.; Freeburn, J.T. 2008. Large fires as agents of ecological diversity in the North American boreal forest. *Int. J. Wildland Fire* 17(6):754–767.

C

- Case, B.S.; Hall, R.J. 2008. Assessing prediction errors of generalized tree biomass and volume equations for the boreal forest region of west-central Canada. *Can. J. For. Res.* 38(4):878-889.
- Chertov, O.; Bhatti, J.S.; Komarov, A.; Mikhailov, A.; Bykhovets, S. 2008. Influence of climate change, fire and harvest on the carbon dynamics of black spruce in central Canada. *For. Ecol. Manag.* 257(3):941-950.
- Chhin, S.; Hogg, E.H.; Lieffers, V.J.; Huang, S. 2008. Influences of climate on the radial growth of lodgepole pine in Alberta. *Botany* 86(2):167-178.
- Chhin, S.; Hogg, E.H.; Lieffers, V.J.; Huang, S. 2008. Potential effects of climate change on the growth of lodgepole pine across diameter size classes and ecological regions. *For. Ecol. Manag.* 256(10):1692-1703.
- Chhin, S.; Hogg, E.H.; Lieffers, V.J.; Huang, S. 2010. Growth-climate relationships vary with height along the stem in lodgepole pine. *Tree Physiol.* 30:335-345.
- Chubaty, A.M.; Roitberg, B.D.; Li, Chao 2009. A dynamic host selection model for mountain pine beetle, *Dendroctonus ponderosae* Hopkins. *Ecol. Model.* 220(9-10):1241-1250.
- Clinch, R.L.; Thevathasan, N.V.; Gordon, A.M.; Volk, T.A.; Sidders, D.M. 2009. Biophysical interactions in a short rotation willow intercropping system in southern Ontario, Canada. *Agric. Ecosyst. Environ.* 131(1-2):61-69.
- Cobb, T.P.; Hannam, K.D.; Kishchuk, B.E.; Langor, D.W.; Quideau, S.A.; Spence, J.R. 2009. Wood-feeding beetles and soil nutrient cycling in burned forests: implications of post-fire salvage logging. *Agric. For. Entomol.* 12(1):9-18.
- Cobb, T.P.; Morissette, J.L.; Jacobs, J.; Koivula, M.; Spence, J.R.; Langor, D.W. 2010. Effects of postfire salvage logging on deadwood-associated beetles. *Conserv. Biol.* 25(1):94-104.
- Cooke, B.J.; Lorenzetti, F.; Roland, J. 2009. On the duration and distribution of forest tent caterpillar outbreaks in east-central Canada. *J. Entomol. Soc. Ont.* 140:3-18.
- Cruz, M.G.; Alexander, M.E. 2009. Assessing discontinuous fire behavior and uncertainty associated with the onset of crowning. Page 20 in R.E. Masters, K.E.M. Galley, and D.G. Despain, eds. The '88 fires: Yellowstone and beyond. Proc. Conf. September 22-27, 2008, Jackson, WY. Tall Timbers Publ. No. 16, Tall Timbers Res. Stn., Tallahassee, FL.
- Cruz, M.G.; Alexander, M.E. 2010. Assessing crown fire potential in coniferous forests of western North America: a critique of current approaches and recent simulation studies. *Int. J. Wildland Fire* 19(4):377-398.
- Cruz, M.G.; Alexander, M.E.; Fernandes, P.A.M. 2008. Development of a model system to predict wildfire behaviour in pine plantations. *Aust. For. J.* 71(2):113-121.
- Cruz, M.G.; Alexander, M.E.; Wakimoto, R.H. 2010. Comment on "Estimating canopy fuel characteristics in five conifer stands in the western United States using tree and stand measurements". *Can. J. For. Res.* 40(11):2262-2263.

D

Digweed, S.C.; MacQuarrie, C.J.K.; Langor, D.W.; Williams, D.J.M.; Spence, J.R.; Nystrom, K.L.; Morneau, L. 2009. Current status of invasive alien birch-leafmining sawflies (Hymenoptera: Tenthredinidae) in Canada, with keys to species. *Can. Entomol.* 141(3):201–235.

Dukes, J.S.; Pontius, J.; Orwig, D.; Garnas, J.R.; Rodgers, V.L.; Brazee, N.; Cooke, B.J.; Theoharides, K.A.; Strange, E.E.; Harrington, R.; Ehrenfeld, J.; Gurevitch, J.; Lerdau, M.; Stinson, K.; Wick, R.; Ayres, M.P. 2009. Responses of insect pests, pathogens, and invasive plant species to climate change in the forests of northeastern North America: what can we predict? *Can. J. For. Res.* 39(2):231–248.

F

Faulkner, H.; McFarlane, B.L.; McGee, T.K. 2009. Comparison of homeowner response to wildfire risk among towns with and without wildfire management. *Environ. Haz.* 8:38–51.

Flint, C.G.; McFarlane, B.L.; Müller, M. 2009. Human dimensions of forest disturbance by insects: an international synthesis. *Environ. Manag.* 43(6):1174–1186.

French, N.H.F.; Kasischke, E.S.; Hall, R.J.; Murphy, K.A.; Verbyla, D.L.; Hoy, E.E.; Allen, J.L. 2008. Using Landsat data to assess fire and burn severity in the North American boreal forest region: an overview and summary of results. *Int. J. Wildland Fire* 17(4):443–462.

G

Ghebremichael, A. 2009. Merits of implementing parametric and nonparametric methods jointly: empirical measures of technological progress and productivity performance. LAP Lambert Academic Publishing, Saarbrücken, Germany.

Ghebremichael, A.; Potter-Witter, K. 2009. Effects of tax incentives on long-run capital formation and total factor productivity growth in the Canadian sawmilling industry. *For. Pol. Econ.* 11(2):85–94.

Gradowski, T.; Lieffers, V.J.; Landhäusser, S.M.; Sidders, D.M.; Volney, W.J.A.;

Spence, J.R. 2010. Regeneration of *Populus* nine years after variable retention harvest in boreal mixedwood forests. *For. Ecol. Manag.* 259(3):383–389.

Gradowski, T.; Sidders, D.M.; Keddy, T.J.; Lieffers, V.J.; Landhäusser, S.M. 2008. Effects of overstory retention and site preparation on growth of planted white spruce seedlings in deciduous and coniferous dominated boreal plains mixed-woods. *For. Ecol. Manag.* 255(11):3744–3749.

H

- Hagemann, U.; Moroni, M.T.; Shaw, C.H.; Kurz, W.A.; Makeschin, F. 2010. Comparing measured and modelled forest carbon stocks in high-boreal forests of harvest and natural-disturbance origin in Labrador, Canada. *Ecol. Model.* 221(5):825–839.
- Hall, R.J. 2008. LiDAR used in natural resource management (Editorial)/Utilisation du LiDAR en aménagement des ressources naturelles (Éditorial). *For. Chron.* 84(6):791–794.
- Hall, R.J.; Filiatrault, M.; Deschamps, A.; Arsenault, E. 2009. Mapping eastern spruce budworm cumulative defoliation severity from Landsat and SPOT. Pages 1190–1194 in C.A. Coburn and D.R. Peddle, eds. *Proc. 30th Can. Symp. Remote Sens.*, June 22–25, 2009, Lethbridge, AB. Can. Remote Sens. Soc., Ottawa, ON.
- Hall, R.J.; Freeburn, J.T.; de Groot, W.J.; Pritchard, J.; Lynham, T.J.; Landry, R. 2008. Remote sensing of burn severity: experience from western Canada boreal fires. *Int. J. Wildland Fire* 17(4):476–489.
- Hall, R.J.; Skakun, R.S.; Beaudoin, A.; Wulder, M.A.; Arsenault, E.; Bernier, P.Y.; Guindon, L.; Luther, J.E.; Gillis, M.D. 2010. Approaches for forest biomass estimation and mapping in Canada. Pages 1988–1991 in *Geosci. Remote Sens. Symp.*, July 25–30, 2010, Honolulu, HI. IEEE-USA, Washington, DC.
- Hall, R.J.; Thomas, S.J.; Van der Sanden, J.J.; Arsenault, E.; Deschamps, A.; Kurz, W.A.; Dymond, C.C.; Landry, R.; Hogg, E.H.; Michaelian, M.; Skakun, R.S. 2008. Remote sensing of forest health: current advances and challenges. Pages 73–78 in *Proc. For. Pest Manag. Forum/Compte rendu forum répres. ravag. for.*, December 4–6, 2007, Ottawa, ON. Nat. Resour. Can., Ottawa, ON.
- Hiratsuka, Y. 2010. Obituary: Dr. Robert Joseph Bandoni (1926–2009). *Mycoscience* 51:88–89.
- Hogg, E.H.; Brandt, J.P.; Michaelian, M. 2008. Impacts of a regional drought on the productivity, dieback, and biomass of western Canadian aspen forests. *Can. J. For. Res.* 38(6):1373–1384.
- Hopkinson, C.; Chasmer, L.; Hall, R.J. 2008. The uncertainty in conifer plantation growth prediction from multi-temporal lidar datasets. *Remote Sens. Environ.* 112(3):1168–1180.
- Howlett, M.; Rayner, J.; Wellstead, A.M. 2009. National forest planning and sustainability concerns: the international influence. Pages 71–93 in C. Gore and P. Stoett, eds. *Environmental challenges and opportunities: local-global perspectives on Canadian issues*. Emond Montgomery Publications Ltd., Toronto, ON.
- Huddart-Kennedy, E.; Beckley, T.M.; McFarlane, B.L.; Nadeau, S. 2009. Rural–urban differences in environmental concern in Canada. *Rural Sociol.* 74(3):309–329.
-

J

- Jacobs, J.; Langor, D.W. 2009. Deadwood-associated insect biodiversity in mixedwood forests. *Sustain. For. Manag. Netw.*, Univ. Alta., Edmonton, AB. Res. Note 42.
- Johnston, M.H.; Campagna, M.; Gray, P.A.; Kope, H.H.; Loo, J.A.; Ogden, A.E.; O'Neill, G.A.; Price, D.T.; Williamson, T.B. 2009. Vulnérabilité des arbres du Canada aux

- changements climatiques et propositions de mesures visant leur adaptation : un aperçu destiné aux décideurs et aux intervenants du monde forestier. Cons. can. minist. for., Ottawa (Ontario).
- Johnston, M.H.; Campagna, M.; Gray, P.A.; Kope, H.H.; Loo, J.A.; Ogden, A.E.; O'Neill, G.A.; Price, D.T.; Williamson, T.B. 2009. Vulnerability of Canada's tree species to climate change and management options for adaptation: an overview for policy makers and practitioners. Can. Counc. For. Minist., Ottawa, ON.
- Johnston, M.H.; Williamson, T.B.; Munson, A.D.; Ogden, A.E.; Moroni, M.T.; Parsons, R.; Price, D.T.; Stadt, J.J. 2010. Climate change and forest management in Canada: impacts, adaptive capacity and adaptation options. A state of knowledge report. Sustain. For. Manag. Netw., Univ. Alta., Edmonton, AB.
- Joss, B.N.; Hall, R.J.; Sidders, D.M.; Keddy, T.J. 2008. Fuzzy-logic modeling of land suitability for hybrid poplar across the Prairie Provinces of Canada. Environ. Monitor. Assess. 141(1-3):79-96.
-
- ## K
- Klimaszewski, J.; Langor, D.W.; Majka, C.G.; Bouchard, P.; Bousquet, Y.; LeSage, L.; Smetana, A.; Sylvestre, P.; Pelletier, G.; Davies, A.; DesRochers, P.; Goulet, H.; Webster, R.P.; Sweeney, J.D. 2010. Review of adventive species of Coleoptera (Insecta) recorded from eastern Canada. Pensoft, Sofia, Bulgaria.
- Krawchuk, M.A.; Moritz, M.A.; Parisien, M.-A.; Van Dorn, J.; Hayhoe, K. 2009. Global pyrogeography: the current and future distribution of wildfire. PLoS ONE 4(4). 12 p.
- Kuhnke, D.H.; White, W.A. 2010. Causal factors behind household expenditure leakage and its effect on community resource dependence in Quebec. Nat. Resour. Can, Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-418.
- Kull, S. 2010a. Le modèle du bilan du carbone du secteur forestier canadien à l'échelle des opérations (MBC-SFC3). Éd. rev. Ressour. nat. Can., Serv. can. for., Cent. for. Nord, Edmonton (Alberta). Brochure.
- Kull, S. 2010b. The operational-scale carbon budget model of the Canadian forest sector (CBM-CFS3). Rev. ed. Nat. Resour. Can, Can. For. Serv., North. For. Cent., Edmonton, AB. Pamphlet.
-

- ## L
- Langor, D.W., éd. 2009a. Arthropodes des forêts canadiennes. Ressour. nat. Can., Serv. Can. for., Cent. for. Nord, Edmonton (Alberta), et Comm. biol. Can., Edmonton (Alberta). Vol. 4.
- Langor, D.W., ed. 2009b. Arthropods of Canadian forests. Nat. Resour. Can, Can. For. Serv., North. For. Cent., Edmonton, AB, and Biol. Surv. Can., Edmonton, AB. Vol. 4.
- Langor, D.W.; DeHaas, L.; Foottit, R.G. 2009. Diversity of non-native terrestrial arthropods on woody plants in Canada. Biol. Invasions 11(1):5-19.
- Langor, D.W.; Hammond, H.E.J.; Spence, J.R.; Jacobs, J.; Cobb, T.P. 2008. Saproxylic insect assemblages in Canadian forests: diversity, ecology, and conservation. Can. Entomol. 140(4):453-474.

- Langor, D.W.; Spence, J.R. 2008. Foreword to *Maintaining arthropods in northern forest ecosystems: symposium proceedings/ Avant-propos, Actes du symposium : maintien des arthropodes dans les écosystèmes forestiers nordiques*. Can. Entomol. 140(4):vii-ix.
- Langor, D.W.; Sweeney, J.D., eds. 2009a. Ecological impacts of non-native invertebrates and fungi on terrestrial ecosystems. Springer, Dordrecht, The Netherlands.
- Langor, D.W.; Sweeney, J.D. 2009b. Foreword: Ecological impacts of non-native invertebrates and fungi on terrestrial ecosystems. Biol. Invasions 11(1):1-3.
- Larocque, G.R.; Bhatti, J.S.; Boutin, R.; Chertov, O. 2008. Uncertainty analysis in carbon cycle models of forest ecosystems: research needs and development of a theoretical framework to estimate error propagation. Ecol. Model. 219(3-4):400-412.
- Larocque, G.R.; Bhatti, J.S.; Gordon, A.M.; Luckai, N.; Wattenbach, M.; Liu, J.; Peng, C.; Arp, P.A.; Liu, S.; Zhang, C.-F.; Komarov, A.; Grabarnik, P.; Sun, J.; White, T.M. 2008. Uncertainty and sensitivity issues in process-based models of carbon and nitrogen cycles in terrestrial ecosystems. Pages 307-327 in A.J. Jakeman, A. Voinov, A.E. Rizzoli, and S.H. Chen, eds. Environmental modelling, software and decision support: state of the art and new perspectives. Elsevier, Amsterdam, The Netherlands.
- Lavoie, N.; Alexander, M.E.; Macdonald, S.E. 2010. Photo guide for quantitatively assessing the characteristics of forest fuels in a jack pine-black spruce chronosequence in the Northwest Territories. Nat. Resour. Can, Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-419.
- Lawson, B.D.; Armitage, O.B. 2008. Weather guide for the Canadian Forest Fire Danger Rating System. Nat. Resour. Can, Can. For. Serv., North. For. Cent., Edmonton, AB.
- Lefebvre, E.M. 2008a. Northern Forestry Centre publications, 2004-2007. Nat. Resour. Can, Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-411E.
- Lefebvre, E.M. 2008b. Publications du Centre de foresterie du Nord 2004-2007. Ressour. nat. Can., Serv. Can. for., Cent. for. Nord, Edmonton (Alberta). Rap. Inf. NOR-X-411F.
- Lemprière, T.C.; Bernier, P.Y.; Carroll, A.L.; Flannigan, M.D.; Gilsenan, R.P.; McKenney, D.W.; Hogg, E.H.; Pedlar, J.H.; Blain, D. 2008a. L'importance d'adapter le secteur forestier aux changements climatiques. Ressour. nat. Can., Serv. Can. for., Cent. for. Nord, Edmonton (Alberta). Rap. Inf. NOR-X-416F.
- Lemprière, T.C.; Bernier, P.Y.; Carroll, A.L.; Flannigan, M.D.; Gilsenan, R.P.; McKenney, D.W.; Hogg, E.H.; Pedlar, J.H.; Blain, D. 2008b. The importance of forest sector adaptation to climate change. Nat. Resour. Can, Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-416E.
- Li, C. 2009. Toward full, multiple, and optimal wood fibre utilization: a modeling perspective. For. Chron. 85(3):377-381.
- Li, C. 2010. Forest fire, friend or enemy? (in Chinese). J. Nature Sci. Tech. 182:42-46.
- Li, C.; Barclay, H.J.; Hans, H.; Liu, J.; Klos, R.; Carlson, G. 2010. Accuracy in population estimation: a methodological consideration. Ecol. Complex. 7:208-211.
- Li, C.; Hans, H.; Barclay, H.J.; Liu, J.; Carlson, G.; Campbell, D. 2008. Comparison of spatially explicit forest landscape fire disturbance models. For. Ecol. Manag. 254(3):499-510.
- Li, C.; Liu, S.; Zhang, Y.; Liu, J.; Chuanwen, L. 2008. Forest management and carbon sink dynamics: a study in boreal and sub-alpine forest regions. Pages 323-341 in R. Laforteza, J. Chen, G. Sanesi, and T.R. Crow, eds. Patterns and processes in forest landscapes: multiple use and sustainable management. Springer, New York, NY.

Lieffers, V.J.; Sidders, D.M.; Gradowski, T.; Landhäusser, S.M.; Frey, B.R.; Munson, A.D.; Keddy, T.J.; Volney, W.J.A.; Spence, J.R.; Blenis, P.V. 2009a. Régénération de l'épinette et du tremble après des coupes à rétention variable sur les sites du projet EMEND. Rés. gest. dur. for., Univ. Alta., Edmonton (Alberta). Note rech. 41.

Lieffers, V.J.; Sidders, D.M.; Gradowski, T.; Landhäusser, S.M.; Frey, B.R.; Munson, A.D.; Keddy, T.J.; Volney, W.J.A.; Spence, J.R.; Blenis, P.V. 2009b. Spruce and aspen regeneration following variable retention harvests at EMEND. Sustain. For. Manag. Netw., Univ. Alta., Edmonton, AB. Res. Note 41.

M

MacIsaac, D.A.; Krygier, R. 2009. Development and long-term evaluation of harvesting patterns to reduce windthrow risk of understorey spruce in aspen-white spruce mixedwood stands in Alberta, Canada. *Forestry* 82(3):323-342.

Majka, C.G.; Gimmel, M.L.; Langor, D.W. 2008. The Phalacridae (Coleoptera: Cucujoidea) of Canada: new records, distribution and bionomics with a particular focus on the Atlantic Canadian fauna. *ZooKeys* 2:209-220.

Majka, C.G.; Johnson, C.; Langor, D.W. 2010. Contributions towards an understanding of the Atomariinae (Coleoptera, Cryptophagidae) of Atlantic Canada. *ZooKeys* 35:37-63.

Majka, C.G.; Langor, D.W. 2008. The Leiodidae (Coleoptera) of Atlantic Canada: new records, faunal composition, and zoogeography. *ZooKeys* 2:357-402.

Majka, C.G.; Langor, D.W. 2010. Contributions towards an understanding of the Cryptophaginae (Coleoptera, Cryptophagidae) of Atlantic Canada. *ZooKeys* 35:13-35.

Majka, C.G.; Langor, D.W.; Rücker, W.H. 2009. Latridiidae (Coleoptera) of Atlantic Canada: new records, keys to identification, new synonyms, distribution, and zoogeography. *Can. Entomol.* 141(4):317-370.

McDermid, G.J.; Hall, R.J.; Sánchez-Azofeifa, G.A.; Franklin, S.E.; Stenhouse, G.B.; Kobliuk, T.; LeDrew, E.F. 2009. Remote

sensing and forest inventory for wildlife habitat assessment. *For. Ecol. Manag.* 257(11):2262-2269.

McFarlane, B.L.; Watson, D.O. 2008. Perceptions of ecological risk associated with mountain pine beetle (*Dendroctonus ponderosae*) infestations in Banff and Kootenay National Parks of Canada. *Risk Anal.* 28(1):203-212.

McGee, T.K.; McFarlane, B.L.; Varghese, J. 2009. An examination of the influence of hazard experience on wildfire risk perceptions and adoption of mitigation measures. *Soc. Nat. Resour.* 22(4):308-323.

Metsaranta, J.M.; Kurz, W.A.; Neilson, E.T.; Stinson, G. 2010. Implications of future disturbance regimes on the carbon balance of Canada's managed forest (2010-2100). *Tellus B* 62B(5):719-728.

Miller, C.A.; Parisien, M.-A.; Ager, A.A.; Finney, M.A. 2008. Evaluating spatially-explicit burn probabilities for strategic fire management planning. Pages 245-252 in *WIT Transactions on Ecology and the Environment: modelling, monitoring and management of forest fires*. WIT (Trans. Wessex Inst.) Press, Bellerica, MA.

Moore, T.R.; Trofymow, J.A.; Siltanen, R.M.; Kozak, L.M. 2008. Litter decomposition and nitrogen and phosphorus dynamics in peatlands and uplands over 12 years in central Canada. *Oecologia* 157(2):317-325.

Moritz, M.A.; Krawchuk, M.A.; Parisien, M.-A. 2010. Pyrogeography: understanding the ecological niche of fire. *PAGES news* 18(2):83-85.

Moroni, M.T.; Shaw, C.H.; Kurz, W.A.; Rampley, G.J. 2010. Forest carbon stocks in Newfoundland boreal forests of harvest and natural disturbance origin II: model evaluation. *Can. J. For. Res.* 40(11):2146-2163.

Moroni, M.T.; Shaw, C.H.; Otahal, P. 2010. Forest carbon stocks in Newfoundland

boreal forests of harvest and natural disturbance origin I: field study. *Can. J. For. Res.* 40(11):2135-2145.

Murphy, P.N.C.; Castonguay, M.; Ogilvie, J.; Nasr, M.; Hazlett, P.W.; Bhatti, J.S.; Arp, P.A. 2009. A geospatial and temporal framework for modeling gaseous N and other N losses from forest soils and basins, with application to the Turkey Lakes Watershed Project, in Ontario, Canada. *For. Ecol. Manag.* 258(10):2304-2317.

N

Natural Resources Canada. 2010. Trees of the boreal forest. *Nat. Resour. Can., Can. For. Serv., North. For. Cent.*, Edmonton, AB. Key chain tags, 8.5 cm x 5.5 cm.

Norris, C.E.; Quideau, S.A.; Bhatti, J.S.; Wasylisen, R.E. 2010. Soil carbon stabilization in jack pine stands along the

Boreal Forest Transect Case Study. *Glob. Chang. Biol.* 17(1):480-494.

Norris, C.E.; Quideau, S.A.; Bhatti, J.S.; Wasylisen, R.E.; MacKenzie, M.D. 2009. Influence of fire and harvest on soil organic carbon in jack pine sites. *Can. J. For. Res.* 39(3):642-654.

P

Parisien, M.-A.; Miller, C.; Ager, A.A.; Finney, M.A. 2010. Use of artificial landscapes to isolate controls on burn probability. *Landsc. Ecol.* 25(1):79-93.

Parisien, M.-A.; Moritz, M.A. 2009. Environmental controls on the distribution of wildfire at multiple spatial scales. *Ecol. Monogr.* 79(1):127-154.

Parkins, J.R. 2009. Managing conflict in Alberta: the case of forest certification and citizen committees. Pages 174-190 in L. Adkin, ed. *Environmental Conflict and Democracy in Canada*. UBC Press, Vancouver, BC.

Parkins, J.R.; Davidson, D.J. 2008. Constructing the public sphere in compromised settings: environmental

governance in the Alberta forest sector. *Can. Rev. Sociol.* 45(2):177-196.

Patriquin, M.N.; Lantz, V.A.; Stedman, R.C.; White, W.A. 2008. Working together: a reciprocal wood flow arrangement to mitigate the economic impacts of natural disturbance. *Forestry* 81(2):227-242.

Patriquin, M.N.; Parkins, J.R.; Stedman, R.C. 2009. Bringing home the bacon: industry, employment, and income in boreal Canada. *For. Chron.* 85(1):65-74.

Pilger, N.; Peddle, D.R.; Hall, R.J. 2010. MFM CR modeling of forest stand height. Pages 245-248 in J.M. Piwowar, comp. *The Prairie Summit/Le sommet des Prairies*. Proc. Can. Assoc. Geographers, Can. Cartographic Assoc., Can. Geomorph. Res.

- Group, Can. Remote Sens. Soc., June 1–5, 2010, Regina, SK. Univ. Regina, Regina, SK.
- Pohl, G.R.; Anweiler, G.G.; Schmidt, B.C.; Kondla, N.G. 2010. An annotated list of the Lepidoptera of Alberta, Canada. *Zookeys* 38:1–549.
- Pohl, G.R.; Langor, D.W.; Klimaszewski, J.; Work, T.T.; Paquin, P. 2008. Rove beetles (Coleoptera: Staphylinidae) in northern Nearctic forests. *Can. Entomol.* 140(4):415–436.
-
- Pyper, M.; Spence, J.R.; Langor, D.W. 2010a. Comment les parcelles de rétention influent sur la biodiversité dans les blocs de coupe. Rés. gest. dur. for., Univ. Alta., Edmonton (Alberta). Note rech. 74.
- Pyper, M.; Spence, J.R.; Langor, D.W. 2010b. How retention patches influence biodiversity in cutblocks. Sustain. For. Manag. Netw., Univ. Alta., Edmonton, AB. Res. Note 74.

R

Ressources naturelles Canada. 2010. Les arbres de la forêt boréale. Ressour. nat. Can., Serv. can. for., Cent. for. Nord, Edmonton (Alberta). Chaîne porte-clés, 8.5 cm x 5.5 cm.

Rice, A.V.; Langor, D.W. 2008. A comparison of heat pulse velocity and lesion lengths for assessing the relative virulence of mountain pine beetle-associated fungi on jack pine. *For. Path.* 38(4):257–262.

Rice, A.V.; Langor, D.W. 2009. Mountain pine beetle-associated blue-stain fungi in lodgepole x jack pine hybrids near Grande Prairie, Alberta (Canada). *For. Path.* 39(5):323–334.

Rice, A.V.; Thormann, M.N.; Langor, D.W. 2008. Mountain pine beetle-associated blue-stain fungi are differentially adapted to boreal temperatures. *For. Path.* 38(2):113–123.

S

Shaw, C.H.; Banfield, G.E.; Kurz, W.A. 2008. Stratifying soils into pedogenically similar categories for modeling forest soil carbon. *Can. J. Soil Sci.* 88(4):501–516.

Shaw, C.H.; Boyle, J.R.; Omule, A.Y. 2008. Estimating forest soil carbon and nitrogen stocks with double sampling for stratification. *Soil Sci. Soc. Am. J.* 72(6):1611–1620.

Simonsen, T.; Dombroskie, J.J.; Pohl, G.R. 2009. *Melitara Walker* (Pyralidae) in western Canada: the documentation of *M. Subumbrella* (Dyar) in the prairie provinces demonstrates the value of regional collections and species lists. *J. Lepidop. Soc.* 63(1):31–36.

Simpson, B.N.; Englefield, P.; Anderson, K.R. 2010. Fuel-type mapping for the CWFIS: past, present, and future. Pages 4–9 in A. Pankratz, ed. *Can. Smoke News*. Spring/Summer, Environ. Can., Edmonton, AB.

Skakun, R.S.; Hall, R.J. 2009. SEGSAMP: a pixel window sampling method based on image segmentation. *IEEE J. Sel. Top. Appl. Earth Observ. Remote Sens.* 2(2):96–103.

Smith, N.R.; Kishchuk, B.E.; Mohn, W.W. 2008. Effects of wildfire and harvest disturbances on forest soil bacterial communities. *Appl. Environ. Microbiol.* 74(1):216–224.

- Soenen, S.A.; Peddle, D.R.; Coburn, C.A.; Hall, R.J.; Hall, F.G. 2008. Improved topographic correction of forest image data using a 3-D canopy reflectance model in multiple forward mode. *Int. J. Remote Sens.* 29(4):1007–1027.
- Soenen, S.A.; Peddle, D.R.; Coburn, C.A.; Hall, R.J.; Hall, F.G. 2009. Canopy reflectance model inversion in multiple forward mode: forest structural information retrieval from solution set distributions. *Photogramm. Eng. Remote Sens.* 75(4):361–374.
- Soenen, S.A.; Peddle, D.R.; Hall, R.J.; Coburn, C.A.; Hall, F.G. 2010. Estimating aboveground forest biomass from canopy reflectance model inversion in mountainous terrain. *Remote Sens. Environ.* 114(7):1325–1337.
- Spence, J.R.; Langor, D.W.; Jacobs, J.; Work, T.T.; Volney, W.J.A. 2008. Conservation of forest-dwelling arthropod species: simultaneous management of many small and heterogeneous risks. *Can. Entomol.* 140(4):510–525.
- Swallow, M.; Quideau, S.A.; MacKenzie, M.D.; Kishchuk, B.E. 2009. Microbial community structure and function: the effect of silvicultural burning and topographic variability in northern Alberta. *Soil Biol. Biochem.* 41(4):770–777.

T

- Tymstra, C.; Bryce, R.W.; Wotton, B.M.; Taylor, S.W.; Armitage, O.B. 2010. Development and structure of Prometheus: the Canadian Wildland Fire Growth Simulation Model. *Nat. Resour. Can., Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-417.*

W

- Wang, Y.; Anderson, K.R. 2010. An evaluation of spatial and temporal patterns of lightning- and human-caused forest fires in Alberta, Canada, 1980–2007. *Int. J. Wildland Fire* 19(8):1059–1072.
- Wang, Y.; Flannigan, M.D.; Anderson, K.R. 2009. Correlations between forest fires in British Columbia, Canada, and sea surface temperature of the Pacific Ocean. *Ecol. Model.* 221(1):122–129.
- Wellstead, A.M. 2008. The (post) staples economy and the (post) staples state in historical perspective. Pages 19–34 in M. Howlett and K. Brownsey, eds. *Canada's resource economy in transition: the past, present, and future of Canadian staples industries.* Emond Montgomery Publ. Ltd., Toronto, ON.
- Wellstead, A.M. 2010. Book review of "Setting the standard: certification, governance, and the Forest Stewardship Council". *J. Nat. Resour. Pol. Res.* 2(2):192–193.
- Wellstead, A.M.; Rayner, J. 2009. Manitoba: from provincial-based planning to localised Aboriginal governance. *Pol. Soc.* 28(2):151–163.
- Wellstead, A.M.; Stedman, R.C. 2008. Intersection and integration of First Nations in the Canadian forestry sector: implications for economic development. *J. Aborig. Econ. Dev.* 6(1):30–43.

- Wellstead, A.M.; Stedman, R.C.; Lindquist, E.A. 2009. The nature of regional policy work in Canada's federal public service. *Can. Pol. Sci. Rev.* 3(1):34–56.
- Wieder, R.K.; Scott, K.; Kamminga, K.; Vile, M.A.; Vitt, D.H.; Bone, T.; Xu, B.; Benscoter, B.W.; Bhatti, J.S. 2008. Postfire carbon balance in boreal bogs of Alberta, Canada. *Glob. Chang. Biol.* 15(1):63–81.
- Williams, D.J.M. 2010a. Spiny ash sawfly. *Nat. Resour. Can., Can. For. Serv., North. For. Cent., Edmonton, AB. For. Leaf.* 37.
- Williams, D.J.M. 2010b. Tenthredine pectinata du frêne. *Ressour. nat. Can., Serv. can. for., Cent. for. Nord, Edmonton (Alberta). Dép. for.* 37.
- Williamson, T.B.; Colombo, S.J.; Duinker, P.N.; Gray, P.A.; Hennessey, R.J.; Houle, D.; Johnston, M.H.; Ogden, A.E.; Spittlehouse, D.L. 2009a. Climate change and Canada's forests: from impacts to adaptation. *Nat. Resour. Can., Can. For. Serv., North. For. Cent., Edmonton, AB, Sustain. For. Manag. Netw., Univ. Alta., Edmonton, AB.*
- Williamson, T.B.; Colombo, S.J.; Duinker, P.N.; Gray, P.A.; Hennessey, R.J.; Houle, D.; Johnston, M.H.; Ogden, A.E.; Spittlehouse, D.L. 2009b. Les changements climatiques et les forêts du Canada : des impacts à l'adaptation. *Ressour. nat. Can., Serv. can. for., Cent. for. Nord, Edmonton (Alberta), Rés. Gest. durable for., Univ. Alta., Edmonton (Alberta).*
- Williamson, T.B.; Johnston, M.H. 2009. Climate change adaptation: initiatives and issues in Canada's forest sector. Pages 151–183 in L. Paoloni, ed. *Studi e materiali di diritto agrario—Politiche di forestazione ed emissioni climatiche. [Studies in environmental law—forest policies and climate change emissions.]* Edizioni Tellus, Rome, Italy.
- Williamson, T.B.; Price, D.T.; Beverly, J.; Bothwell, P.M.; Frenkel, B.; Park, J.; Patriquin, M.N. 2008a. Assessing potential biophysical and socioeconomic impacts of climate change on forest-based communities: a methodological case study. *Nat. Resour. Can., Can. For. Serv., North. For. Cent., Edmonton, AB. Inf. Rep. NOR-X-415E.*
- Williamson, T.B.; Price, D.T.; Beverly, J.; Bothwell, P.M.; Frenkel, B.; Park, J.; Patriquin, M.N. 2008b. Évaluation des répercussions biophysiques et socioéconomiques potentielles du changement climatique sur les collectivités axées sur les ressources forestières : une étude de cas méthodologique. *Ressour. nat. Can., Serv. Can. for., Cent. for. Nord, Edmonton (Alberta). Rap. inf. NOR-X-415F.*
- Williamson, T.B.; Watson, D.O. 2010. Assessment of community preference rankings of potential environmental effects of climate change using the method of paired comparisons. *Clim. Chang.* 99(3):589–612.
- Work, T.T.; Jacobs, J.; Spence, J.R.; Volney, W.J.A. 2010. High levels of green-tree retention are required to preserve ground beetle biodiversity in boreal mixedwood forests. *Ecol. Appl.* 20(3):741–751.
- Work, T.T.; Kolvula, M.; Klimaszewski, J.; Langor, D.W.; Spence, J.R.; Sweeney, J.D.; Hébert, C. 2008. Evaluation of carabid beetles as indicators of forest change in Canada. *Can. Entomol.* 140(4):393–414.

Z

Zha, T.; Barr, A.G.; Black, T.A.; McCaughey, J.H.; Bhatti, J.S.; Hawthorne, I.; Krishnan, P.; Kidston, J.; Saigusa, N.; Shashkov, A.; Nesic, Z. 2009. Carbon sequestration in boreal jack pine stands following harvesting. *Glob. Chang. Biol.* 15(6):1475-1487.

Zhang, C.-F.; Meng, F.-R.; Bhatti, J.S.; Trofymow, J.A.; Arp, P.A. 2008. Modeling forest leaf-litter decomposition and N mineralization in litterbags, placed across Canada: a 5-model comparison. *Ecol. Model.* 219(3-4):342-360.

Zhang, K.; Kimball, J.S.; Hogg, E.H.; Zhao, M.; Oechel, W.C.; Cassano, J.J.; Running, S.W. 2008. Satellite-based model detection of recent climate-driven changes in northern high-latitude vegetation productivity. *J. Geophys. Res.* 113:G03033. 13 p.

SUBJECT INDEX

The subject index that follows lists alphabetically the main topics of research at the Northern Forestry Centre during 2008–2010. Within each topic or category are listed alphabetically the appropriate author and year citations, many of which appear more than once. The topics and categories are as follows:

Climate Change and Environmental Influences
Fire
Forest Diseases
Forest Ecology and Site Classification
Forest Insects
Growth, Yield, Inventory and Monitoring
Impacts of Forestry Practices
Miscellaneous
National and International Strategy and Coordination
Remote Sensing
Silviculture
Socioeconomics and Statistics
Soils and Wetlands
Sustainable Forest Management

CLIMATE CHANGE AND ENVIRONMENTAL INFLUENCES

Allen, Macalady, Chenchouni, Bachelet, McDowell, Vennetier, Kitzberger, Rigling, Breshears, Hogg, Gonzalez, Fensham, Zhang, Castro, Demidova, Lim, Allard, Running, Semerci, and Cobb 2010
Bauer, Bhatti, Swanston, Wieder, and Preston 2009
Beilman, Vitt, Bhatti, and Forest 2008
Bhatti, Chertov, and Komarov 2009
Bhatti and Tarnocai 2009
Chertov, Bhatti, Komarov, Mikhailov, and Bykhovets 2008
Chhin, Hogg, Lieffers, and Huang 2008a, b
Chhin, Hogg, Lieffers, and Huang 2010
Dukes, Pontius, Orwig, Garnas, Rodgers, Braze, Cooke, Theoharides, Strange, Harrington, Ehrenfeld, Gurevitch, Lerdau, Stinson, Wick, and Ayres 2009
Hagemann, Moroni, Shaw, Kurz, and Makeschin 2010
Johnston, Campagna, Gray, Kope, Loo, Ogden, O'Neill, Price, and Williamson 2009

Johnston, Williamson, Munson, Ogden, Moroni, Parsons, Price, and Stadt 2010
Joss, Hall, Sidders, and Keddy 2008
Kull 2010a, b
Larocque, Bhatti, Boutin, and Chertov 2008
Larocque, Bhatti, Gordon, Luckai, Wattenbach, Liu, Peng, Arp, Liu, Zhang, Komarov, Grabarnik, Sun, and White 2008
Lemière, Bernier, Carroll, Flannigan, Gilsenan, McKenney, Hogg, Pedlar, Blain 2008a, b
Li, Liu, Zhang, Liu, and Chuanwen 2008
Metsaranta, Kurz, Neilson, and Stinson 2010
Michaelian, Hogg, Hall, and Arsenault 2010
Moroni, Shaw, Kurz, and Rampley 2010
Moroni, Shaw, and Otahal 2010
Murphy, Castonguay, Ogilvie, Nasr, Hazlett, Bhatti, and Arp 2009
Norris, Quideau, Bhatti, and Wasylisen 2010
Shaw, Banfield, and Kurz 2008
Shaw, Boyle, and Omule 2008
Wieder, Scott, Kamminga, Vile, Vitt, Bone, Xu, Benscoter, and Bhatti 2008
Williamson, Colombo, Duinker, Gray, Hennessey, Houle, Johnston, Ogden, and Spittlehouse 2009a, b
Williamson and Johnston 2009
Williamson, Price, Beverly, Bothwell, Frenkel, Park, and Patriquin 2008a, b
Williamson and Watson 2010
Zha, Barr, Black, McCaughey, Bhatti, Hawthorne, Krishnan, Kidston, Saigusa, Shashkov and Nesic 2009
Zhang, Meng, Bhatti, J.S.; Trofymow, J.A.; Arp, P.A. 2008
Zhang, Kimball, Hogg, Zhao, Oechel, Cassano, and Running 2008

FIRE

Alexander 2008a, b
Alexander 2009 a, b, c, d
Alexander 2010 a, b, c
Alexander, Baxter, and Ackerman 2009

Alexander and Cruz 2009
Alexander and Taylor 2010
Anderson 2009, 2010
Anderson, Englefield, Little, and Reuter 2009
Beverly, Bothwell, Conner, and Herd 2010
Beverly, Herd, and Conner 2009
Burton, Parisien, Hicke, Hall, and Freeburn 2008
Cobb, Hannam, Kishchuk, Langor, Quideau, and Spence 2009
Cobb, Morissette, Jacobs, Koivula, Spence, and Langor 2010
Cruz and Alexander 2009, 2010
Cruz, Alexander, and Fernandes 2008
Cruz, Alexander, and Wakimoto 2010
Faulkner, McFarlane, and McGee 2009
French, Kasischke, Hall, Murphy, Verbyla, Hoy, and Allen 2008
Hall, Freeburn, de Groot, Pritchard, Lynham, and Landry 2008
Krawchuk, Moritz, Parisien, Van Dorn, and Hayhoe 2009
Lavoie, Alexander, and Macdonald 2010
Lawson and Armitage 2008
Li 2010
Li, Hans, Barclay, Liu, Carlson, and Campbell 2008
McGee, McFarlane, and Varghese 2009
Miller, Parisien, Ager, and Finney 2008
Moritz, Krawchuk, and Parisien 2010
Norris, Quideau, Bhatti, Wasylisen, and MacKenzie 2009
Parisien, Miller, Ager, and Finney 2010
Parisien and Moritz 2009
Simpson, Englefield, and Anderson 2010
Smith, Kishchuk, and Mohn 2008
Tymstra, Bryce, Wotton, Taylor, and Armitage 2010
Wang and Anderson 2010
Wang, Flannigan, and Anderson 2009
Wieder, Scott, Kamminga, Vile, Vitt, Bone, Xu, Benscoter, and Bhatti 2008

FOREST DISEASES

Rice and Langor 2008, 2009
Rice, Thormann, and Langor 2008

FOREST ECOLOGY AND SITE CLASSIFICATION

Arevalo, Bhatti, Chang, Jassal, and Sidders 2010

Arevalo, Bhatti, Chang, and Sidders 2009, 2010
Bauer, Bhatti, Swanston, Wieder, and Preston 2009
Beilman, Vitt, Bhatti, and Forest 2008
Beverly, Herd, and Conner 2009
Burton, Parisien, Hicke, Hall, and Freeburn 2008
Chertov, Bhatti, Komarov, Mikhailov, and Bykhovets 2008
Cobb, Hannam, Kishchuk, Langor, Quideau, and Spence 2009
Cobb, Morissette, Jacobs, Koivula, Spence, and Langor 2010
Joss, Hall, Sidders, and Keddy 2008
Kull 2010
Larocque, Bhatti, Boutin, and Chertov 2008
Larocque, Bhatti, Gordon, Luckai, Wattenbach, Liu, Peng, Arp, Liu, Zhang, Komarov, Grabarnik, Sun, and White 2008
Li, Barclay, Hans, Liu, Klos, and Carlson 2010
Moore, Trofymow, Siltanen, and Kozak 2008
Murphy, Castonguay, Ogilvie, Nasr, Hazlett, Bhatti, and Arp 2009
Pyper, Spence, and Langor 2010a, b
Shaw, Banfield, and Kurz 2008
Shaw, Boyle, and Omule 2008
Smith, Kishchuk, and Mohn 2008
Swallow, Quideau, MacKenzie, and Kishchuk 2009
Zhang, Meng, Bhatti, J.S.; Trofymow, J.A.; Arp, P.A. 2008
Zhang, Kimball, Hogg, Zhao, Oechel, Cassano, and Running 2008

FOREST INSECTS

Chubaty, Roitberg, and Li 2009
Cobb, Hannam, Kishchuk, Langor, Quideau, and Spence 2009
Cobb, Morissette, Jacobs, Koivula, Spence, and Langor 2010
Cooke, Lorenzetti, and Roland 2009
Digweed, MacQuarrie, Langor, Williams, Spence, Nystrom, and Morneau 2009
Dukes, Pontius, Orwig, Garnas, Rodgers, Brazee, Cooke, Theoharides, Strange, Harrington, Ehrenfeld, Gurevitch, Lerdau, Stinson, Wick, and Ayres 2009
Flint, McFarlane, and Müller 2009
Hall, Filaliatrault, Deschamps, and Arsenault 2009

Jacobs and Langor 2009
Klimaszewski, Langor, Majka, Bouchard, Bousquet, LeSage, Smetana, Sylvestre, Pelletier, Davies, DesRochers, Goulet, Webster, and Sweeney 2010
Langor 2009a, b
Langor, DeHaas, and Foottit 2009
Langor, Hammond, Spence, Jacobs, and Cobb 2008
Langor and Spence 2008
Langor and Sweeney 2009a, b
Majka, Gimmel, and Langor 2008
Majka, Johnson, and Langor 2010
Majka and Langor 2008
Majka and Langor 2010
Majka, Langor, and Rücker 2009
McFarlane and Watson 2008
Pohl, Anweiler, Schmidt, and Kondla 2010
Pohl, Langor, Klimaszewski, Work, and Paquin 2008
Rice and Langor 2008, 2009
Rice, Thormann, and Langor 2008
Simonsen, Dombroskie, and Pohl 2009
Spence, Langor, Jacobs, Work, and Volney 2008
Williams 2010a, b
Work, Jacobs, Spence, and Volney 2010
Work, Kolvula, Klimaszewski, Langor, Spence, Sweeney, and Hébert 2008

GROWTH, YIELD, INVENTORY AND MONITORING

Beverly, Herd, and Conner 2009
Beverly, Uto, Wilkes, and Bothwell 2008
Brandt 2009
Burton, Parisien, Hicke, Hall, and Freeburn 2008
Case and Hall 2008
Chhin, Hogg, Lieffers, and Huang 2008a, b
Chhin, Hogg, Lieffers, and Huang 2010
Clinch, Thevathasan, Gordon, Volk, and Sidders 2009
Gradowski, Lieffers, Landhäuser, Sidders, Volney, and Spence 2010
Gradowski, Sidders, Keddy, Lieffers, and Landhäuser 2008
Hagemann, Moroni, Shaw, Kurz, and Makeschin 2010
Hogg, Brandt, and Michaelian 2008
Hopkinson, Chasmer, and Hall 2008
Joss, Hall, Sidders, and Keddy 2008
Li 2009
Li, Barclay, Hans, Liu, Klos, and Carlson 2010

Li, Hans, Barclay, Liu, Carlson, and Campbell 2008
Lieffers, Sidders, Gradowski, Landhäuser, Frey, Munson, Keddy, Volney, Spence, and Blenis 2009a, b
MacIsaac and Krygier 2009
McDermid, Hall, Sánchez-Azofeifa, Franklin, Stenhouse, Kobliuk, and LeDrew 2009
Michaelian, Hogg, Hall, and Arsenault 2010
Pilger, Peddle, and Hall 2010

IMPACTS OF FORESTRY PRACTICES

MacIsaac and Krygier 2009
Norris, Quideau, Bhatti, Wasylisen, and MacKenzie 2009
Pyper, Spence, and Langor 2010a, b
Work, Jacobs, Spence, and Volney 2010
Zha, Barr, Black, McCaughey, Bhatti, Hawthorne, Krishnan, Kidston, Saigusa, Shashkov and Nesic 2009

MISCELLANEOUS

Hiratsuka 2010
Lefebvre 2008a, b
Natural Resources Canada 2010
Ressources naturelles Canada 2010

NATIONAL AND INTERNATIONAL STRATEGY AND COORDINATION

Howlett, Rayner, and Wellstead 2009
Wellstead, Stedman, and Lindquist 2009

REMOTE SENSING

Arsenault, Hall, Hogg, Michaelian, and Filiatrault 2009
French, Kasischke, Hall, Murphy, Verbyla, Hoy, and Allen 2008
Hall 2008
Hall, Filiatrault, Deschamps, and Arsenault 2009
Hall, Freeburn, de Groot, Pritchard, Lynham, and Landry 2008
Hall, Skakun, Beaudoin, Wulder, Arsenault, Bernier, Guindon, Luther, and Gillis 2010
Hall, Thomas, Van der Sanden, Arsenault, Deschamps, Kurz, Dymond, Landry, Hogg, Michaelian, and Skakun 2008
Hopkinson, Chasmer, and Hall 2008
McDermid, Hall, Sánchez-Azofeifa, Franklin, Stenhouse, Kobliuk, and LeDrew 2009
Pilger, Peddle, and Hall 2010

Skakun, and Hall 2009
Soenen, Peddle, Coburn, Hall, and Hall
2008, 2009
Soenen, Peddle, Hall, Coburn, and Hall 2010
Zhang, Kimball, Hogg, Zhao, Oechel,
Cassano, and Running 2008

SILVICULTURE

Swallow, Quideau, MacKenzie, and Kishchuk
2009

SOCIOECONOMICS AND STATISTICS

Beverly, Uto, Wilkes, and Bothwell 2008
Faulkner, McFarlane, and McGee 2009
Flint, McFarlane, and Müller 2009
Ghebremichael 2009
Ghebremichael and Potter-Witter 2009
Howlett, Rayner, and Wellstead 2009
Huddart-Kennedy, Beckley, McFarlane, and
Nadeau 2009
Kuhnke and White 2010
McFarlane and Watson 2008
McGee, McFarlane, and Varghese 2009
Parkins 2009
Parkins and Davidson 2008
Patriquin, Lantz, Stedman, and White 2008
Patriquin, Parkins, and Stedman 2009
Wellstead 2008
Wellstead 2010
Wellstead and Rayner 2009
Wellstead and Stedman 2008
Wellstead, Stedman, and Lindquist 2009
Williamson, Price, Beverly, Bothwell,
Frenkel, Park, and Patriquin 2008a, b
Williamson and Watson 2010

SOILS AND WETLANDS

Bauer, Bhatti, Swanston, Wieder, and
Preston 2009
Bhatti and Tarnocai 2009
Dimitrov, Grant, Lafleur, and Humphreys
2010a, b
Moore, Trofymow, Siltanen, and Kozak 2008
Norris, Quideau, Bhatti, and Wasylisen
2010
Norris, Quideau, Bhatti, Wasylisen, and
MacKenzie 2009
Wieder, Scott, Kamminga, Vile, Vitt, Bone,
Xu, Benscoter, and Bhatti 2008

SUSTAINABLE FOREST MANAGEMENT

Howlett, Rayner, and Wellstead 2009
Li 2009
Li, Liu, Zhang, Liu, and Chuanwen 2008